

Figure 1 displays five 4x4 grids representing the evolution of a 1D cellular automaton over five time steps. Each grid contains numbers 1 through 34, representing the state of the system at that time. Arrows indicate the movement of information from one cell to its neighbors in the next time step. The first grid shows the initial state with a single '1' at (1,1). The subsequent grids show the spread of this information through the lattice.

2 PLAYS S1									4 PLAYS S2									6 PLAYS S3									8 PLAYS S4									10 PLAYS S5								
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45
46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49					

S1 BOARD A	BOARD B	BOARD C	S1 BOARD A	BOARD B	BOARD C
1 11 21 31	1 11 21 31	1 11 21 31	1 11 21 31	1 11 21 31	1 11 21 31
2 12 22 32	2 12 22 32	2 12 22 32	2 12 22 32	2 12 22 32	2 12 22 32
3 13 23 33	3 13 23 33	3 13 23 33	3 13 23 33	3 13 23 33	3 13 23 33
4 14 24 34	4 14 24 34	4 14 24 34	4 14 24 34	4 14 24 34	4 14 24 34
5 15 25 35	5 15 25 35	5 15 25 35	5 15 25 35	5 15 25 35	5 15 25 35
6 16 26 36	6 16 26 36	6 16 26 36	6 16 26 36	6 16 26 36	6 16 26 36
7 17 27 37	7 17 27 37	7 17 27 37	7 17 27 37	7 17 27 37	7 17 27 37
8 18 28 38	8 18 28 38	8 18 28 38	8 18 28 38	8 18 28 38	8 18 28 38
9 19 29 39	9 19 29 39	9 19 29 39	9 19 29 39	9 19 29 39	9 19 29 39
10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30

FIGURE 8

2 PLAYS S1									4 PLAYS S2									6 PLAYS S3									8 PLAYS S4									10 PLAYS S5								
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45
46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49					

FIGURE 8A

2 PLAYS S1									4 PLAYS S2									6 PLAYS S3									8 PLAYS S4									10 PLAYS S5								
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45
46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49					

FIGURE 8B

2 PLAYS S1									4 PLAYS S2									6 PLAYS S3									8 PLAYS S4									10 PLAYS S5								
1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45	37	38	39	40	41	42	43	44	45
46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49						46	47	48	49					

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